· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
Notice of Allowability	10/808,284	BANKS, GERALD J.
	Examiner	Art Unit
	Vu A. Le	2824
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication (IGHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. This communication is responsive to		
2. X The allowed claim(s) is/are <u>1-44</u> .		
3. The drawings filed on 25 March 2004 are accepted by the	Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority una ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the priority documents and the deport attached Examiner's comment regarding REQUIREMENT	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. hitted. Note the attached EXAMINER es reason(s) why the oath or declara st be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the Comment or in the Comment of the drawing the header according to 37 CFR 1.121(lesit of BIOLOGICAL MATERIAL researces.	national stage application from the complying with the requirements I'S AMENDMENT or NOTICE OF ation is deficient. 948) attached Office action of ags in the front (not the back) of d). must be submitted. Note the
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 03/25/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	te ment/Comment ent of Reasons for Allowance
		A.Le / Examins

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the present invention relates to an electrically alterable non-volatile memory cell having more than two bits. The independent claims 1, 7, 13, 20, 27 and 33 recite a non-volatile memory device comprising a plurality of multi-data memory cells, a sensing/programmingverifying circuitry receiving a parameter which represents the threshold voltage of one non-volatile memory cell, a first programming reference parameter, a first read reference parameter, a second programming reference parameter, a second read reference parameter, a third programming reference parameter and a third read reference parameter; wherein wherein the series of programming operations includes a first programming operation and a second programming after the first programming operation, the duration of the second programming operation being shorter than that of the first programming operation. The PRIOR ART fails to disclose or suggest such an electrically alterable non-volatile memory cell having more than two bits as described in the independent claims 1, 7, 13, 20, 27 and 33, therefore, claims 1-44 are in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu A. Le whose telephone number is (571) 272-1871. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vu A. Le

Primary Examiner

learlie

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10/18/04